10/780,379

STN - STRUCTURE SEARCH
7-27-04

=> d ibib abs hitstr 1-3

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:291951 CAPLUS
DOCUMENT NUMBER: 140:321358
TITLE: Preparation of imidazo[4,5-c]quinoline dimers as immune response modifiers
INVENTOR(S): Griesgraber, George W.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004028539	A2	20040408	WO 2003-US30372	20030925
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004132766	A1	20040708	US 2003-670957	20030925

PRIORITY APPLN. INFO.: US 2002-413848P P 20020926
OTHER SOURCE(S): MARPAT 140:321358
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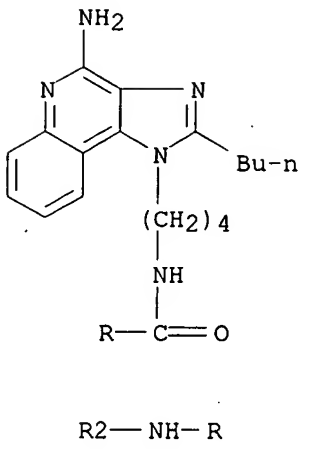
PAGE 1-A



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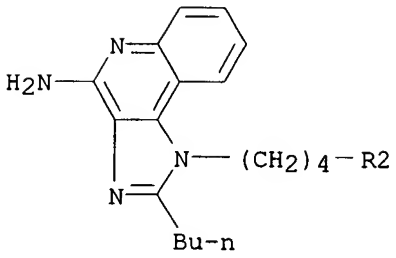

Inventors

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:429098 CAPLUS
DOCUMENT NUMBER: 139:6873
TITLE: Preparation of imidazoquinolinamines as immune response modifiers.
INVENTOR(S): Crooks, Stephen L.; Griesgraber, George W.; Lindstrom, Kyle J.; Merrill, Bryon A.; Rice, Michael J.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: U.S., 66 pp., Cont.-in-part of U.S. 6,541,485.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6573273	B1	20030603	US 2001-28255	20011221
US 6541485	B1	20030401	US 2000-589236	20000607
TR 200103576	T2	20020621	TR 2001-20010357	20000608
EP 1438958	A1	20040721	EP 2004-4588	20000608
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, CY				
ZA 2001009854	A	20030228	ZA 2001-9854	20011129
ZA 2001009857	A	20030228	ZA 2001-9857	20011129

ZA 2001009861	A	20030228	ZA 2001-9861		20011129
US 2004029877	A1	20040212	US 2001-27272		20011221
US 2004014754	A1	20040122	US 2003-352604		20030128
US 2004019048	A1	20040129	US 2003-370800		20030220
PRIORITY APPLN. INFO.:			US 1999-138365P	P	19990610
			US 2000-589236	A2	20000607
			US 2000-589216	A1	20000607
			EP 2000-938205	A3	20000608
			US 2001-166321	A1	20010615
			US 2001-28255	A1	20011221

OTHER SOURCE(S): MARPAT 139:6873

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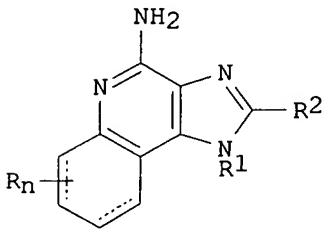


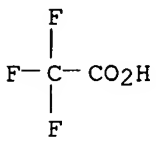
I

AB Title compds. [I; R1 = ANR3CYNR5XR4; A = alkylene, alkenylene; Y = O, S; X = bond, CO, SO2; R3 = H, alkyl; R4 = (substituted) aryl, heteroaryl, alkyl, etc.; R5 = H, alkyl; R4R5 = atoms to form 3-7 membered (un)substituted heterocyclic ring; R2 = H, alkyl,aryl, etc.; R = alkyl, alkoxy, halo, CF3; n = 0-4], were prepared Thus, reaction of 4-morpholinecarbonyl chloride with 1-(4-aminobutyl)-1H-imidazo[4,5-c]quinolin-4-amine in pyridine afforded N4-[4-[4-amino-1H-imidazo[4,5-c]quinolin-1-yl]butyl]-4-morpholinecarboxamide which induced interferon-α biosynthesis in human cells at a lowest concentration of 3.33 μM.

IT **313383-37-8P 313383-38-9P 313383-39-0P**
313383-40-3P 313383-42-5P 313383-44-7P
313383-46-9P 313383-58-3P 313383-60-7P
313383-61-8P 313383-62-9P 313383-68-5P
313383-69-6P 313383-70-9P 313383-72-1P
313383-89-0P 313383-90-3P 313383-91-4P
313383-92-5P 313383-94-7P 313383-96-9P
313384-02-0P 313384-05-3P 313384-06-4P
313384-12-2P 313384-30-4P 313384-31-5P
313384-32-6P 313384-34-8P 313384-48-4P
313384-50-8P 313384-73-5P 313384-74-6P
313385-10-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of imidazoquinolinamines as immune response modifiers)

RN 313383-37-8 CAPLUS

CN Urea, N-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethyl]-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Inventors

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:900461 CAPLUS
DOCUMENT NUMBER: 134:56666
TITLE: Preparation of urea substituted imidazoquinolines as immune response modifiers
INVENTOR(S): Crooks, Stephen L.; Merrill, Bryon A.; Rice, Michael J.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: PCT Int. Appl., 106 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000076518	A1	20001221	WO 2000-US15656	20000608
W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6541485	B1	20030401	US 2000-589236	20000607
EP 1198232	A1	20020424	EP 2000-938205	20000608
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
TR 200103576	T2	20020621	TR 2001-20010357	20000608
JP 2003501473	T2	20030114	JP 2001-502851	20000608
EE 200100668	A	20030217	EE 2001-668	20000608
AU 766565	B2	20031016	AU 2000-53281	20000608
NZ 515968	A	20031031	NZ 2000-515968	20000608
EP 1438958	A1	20040721	EP 2004-4588	20000608
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, CY				
NO 2001005504	A	20020207	NO 2001-5504	20011109
ZA 2001009854	A	20030228	ZA 2001-9854	20011129
ZA 2001009857	A	20030228	ZA 2001-9857	20011129
ZA 2001009861	A	20030228	ZA 2001-9861	20011129
HR 2001000889	A1	20030831	HR 2001-889	20011129
US 2004029877	A1	20040212	US 2001-27272	20011221
US 2004014754	A1	20040122	US 2003-352604	20030128

PRIORITY APPLN. INFO.:
US 1999-138365P P 19990610
US 2000-589236 A 20000607
US 2000-589216 A1 20000607

EP 2000-938205 A3 20000608
WO 2000-US15656 W 20000608
US 2001-166321 A1 20010615

OTHER SOURCE(S): MARPAT 134:56666

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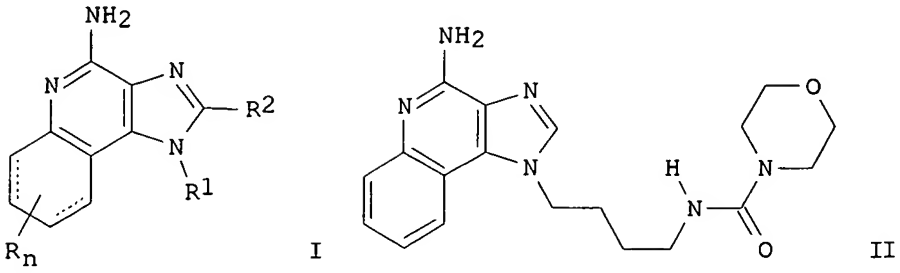


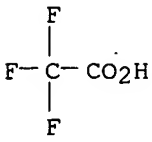
I II

AB The title compds. [I; R1 = alkylNR3CYNR5XR4, alkenylNR3CYNR5XR4 (wherein Y = O, S; X = a bond, CO, SO2; R3 = H, alkyl; R4 = (un)substituted aryl, heteroaryl, alkyl, etc.; R5 = H, alkyl; R4 and R5 can combine to form 3-7 membered (un)substituted heterocyclic ring); R2 = H, alkyl,aryl, etc.; R = alkyl, alkoxy, halo, CF3; n = 0-4], useful as immune response modifiers, were prepared Thus, reacting 4-morpholinecarbonyl chloride with 1-(4-aminobutyl)-1H-imidazo[4,5-c]quinolin-4-amine in pyridine afforded II which induced interferon α biosynthesis in human cells at 3.33 μM. The compds. I can induce the biosynthesis of various cytokines such as interferon α and TNFα (data given), and are useful in the treatment of a variety of conditions including viral diseases and neoplastic diseases.

IT **313383-37-8P 313383-38-9P 313383-39-0P**
313383-40-3P 313383-42-5P 313383-44-7P
313383-46-9P 313383-58-3P 313383-60-7P
313383-61-8P 313383-62-9P 313383-68-5P
313383-69-6P 313383-70-9P 313383-72-1P
313383-89-0P 313383-90-3P 313383-91-4P
313383-92-5P 313383-94-7P 313383-96-9P
313384-02-0P 313384-05-3P 313384-06-4P
313384-12-2P 313384-30-4P 313384-31-5P
313384-32-6P 313384-34-8P 313384-48-4P
313384-50-8P 313384-73-5P 313384-74-6P
313385-10-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of urea substituted imidazoquinolines as immune response modifiers)

RN 313383-37-8 CAPLUS

CN Urea, N-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethyl]-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L3 51 S L1 FULL

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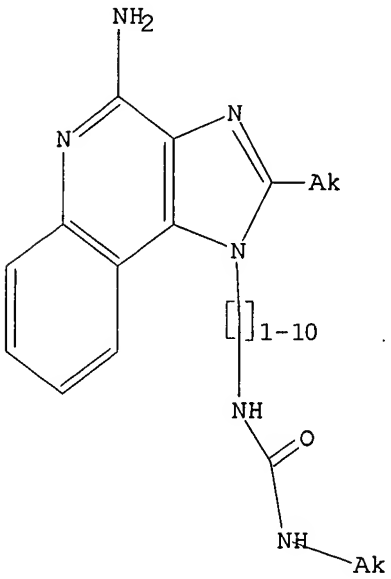

G1 O,N

G2 O,S

G3 Cb,Ak

Structure attributes must be viewed using STN Express query preparation.

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PALM INTRANET

Day : Tuesday
Date: 7/27/2004
Time: 08:21:14

Inventor Name Search Result

Your Search was:

Last Name = CROOKS
First Name = STEPHEN

Application#	Patent#	Status	Date Filed	Title	Inventor Name 45
60483200	Not Issued	020	06/27/2003	SULFONAMIDE AND SULFAMIDE SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
60138365	Not Issued	159	06/10/1999	AMIDE SUBSTITUTED IMIDAZOQUINOLINES	CROOKS STEPHEN L.
10826836	Not Issued	020	04/16/2004	SULFONAMIDE SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
10824232	Not Issued	020	04/14/2004	IMIDAZONAPHTHYRIDINES	CROOKS, STEPHEN L.
10780379	Not Issued	030	02/17/2004	UREA SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
10734306	Not Issued	041	12/12/2003	SULFONAMIDE AND SULFAMIDE SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
10731826	Not Issued	093	12/09/2003	PROCESS FOR PREPARING 1-SUBSTITUTED, 2-SUBSTITUTED 1H-IMIDAZO[4,5-C]QUINOLIN-4-AMINES	CROOKS, STEPHEN L.
10696478	Not Issued	041	10/29/2003	SULFONAMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
10696476	Not Issued	020	10/29/2003	SULFONAMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
10681814	Not Issued	041	10/07/2003	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	CROOKS, STEPHEN L.
10681711	Not	041	10/07/2003	AMIDO ETHER SUBSTITUTED	CROOKS,

	Issued			IMIDAZOQUINOLINES	STEPHEN L.
10681457	Not Issued	030	10/07/2003	AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
10680989	Not Issued	041	10/07/2003	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	CROOKS, STEPHEN L.
10436905	6686472	150	05/13/2003	PROCESS FOR PREPARING 1-SUBSTITUTED, 2-SUBSTITUTED 1-H-IMIDAZO(4,5-C)QUINOLIN-4-AMINES	CROOKS, STEPHEN L.
10406181	Not Issued	094	04/03/2003	IMIDAZONAPHTHYRIDINES	CROOKS, STEPHEN L.
10370800	Not Issued	094	02/20/2003	UREA SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
10352604	Not Issued	094	01/28/2003	UREA SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
10166321	Not Issued	094	06/15/2001	SULFONAMIDE AND SULFAMIDE SUBSTITUTED IMIDAZOQUINOLINES AND METHODS FOR THE TREATMENT OF PERIODONTAL DISEASE USING THESE AND OTHER IMMUNE RESPONSE MODIFIERS	CROOKS, STEPHEN L.
10165449	6664265	150	06/07/2002	AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
10165443	6677347	150	06/07/2002	SULFONAMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
10164816	6660735	150	06/07/2002	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	CROOKS, STEPHEN L.
10028255	6573273	150	12/21/2001	UREA SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
10027273	Not Issued	162	12/21/2001	SULFONAMIDE AND SULFAMIDE SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
10027272	Not Issued	094	12/21/2001	SULFONAMIDE AND SULFAMIDE SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.

10027218	6756382	150	12/21/2001	AMIDE SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
10013060	6656938	150	12/06/2001	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	CROOKS, STEPHEN L.
10012599	6683088	150	12/06/2001	SULFONAMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
10011670	6660747	150	12/06/2001	AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
09974038	6465654	150	10/09/2001	PROCESS FOR PREPARING 1-SUBSTITUTED, 2-SUBSTITUTED 1H-IMIDAZO [4, 5-C] QUINOLINE-4-AMINES	CROOKS, STEPHEN L.
09706990	6514985	150	11/06/2000	IMIDAZONAPHTHYRIDINES	CROOKS, STEPHEN L.
09589580	6451810	150	06/07/2000	AMIDE SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
09589236	6541485	150	06/07/2000	UREA SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
09589216	6331539	150	06/07/2000	SULFONAMIDE AND SULFAMIDE SUBSTITUTED IMIDAZOQUINOLINES	CROOKS, STEPHEN L.
09386486	6348462	150	08/27/1999	1-SUBSTITUTED, 2-SUBSTITUTED1H-IMIDAZO[4,5-C] QUINOLIN-4-AMINES	CROOKS STEPHEN L.
09210114	6194425	150	12/11/1998	IMIDAZONAPHTHYRIDINES	CROOKS STEPHEN L.
09060010	5977366	150	04/14/1998	1-SUBSTITUTED, 2-SUBSTITUTED 1H-IMIDAZO[4,5-C] QUINOLIN-4-AMINES	CROOKS STEPHEN L.
08789264	5741909	150	01/28/1997	1-SUBSTITUTED, 2-SUBSTITUTED 1H-IMIDAZO[4,5-C]QUINOLIN-4-AMINES	CROOKS STEPHEN L.
08455643	5612377	150	05/31/1995	METHOD OF INHIBITING LEUKOTRIENE BIOSYNTHESIS	CROOKS STEPHEN L.
08353802	5605899	150	12/12/1994	1-SUBSTITUTED, 2-SUBSTITUTED 1H-IMIDAZO[4,5-C]OUINOLIN-4-AMINES	CROOKS STEPHEN

					L.
08286017	Not Issued	161	08/04/1994	METHOD OF INHIBITING LEUKOTRIENE BIOSYNTHESIS	CROOKS STEPHEN L.
07938295	5389640	150	08/28/1992	1-SUBSTITUTED, 2-SUBSTITUTED 1H-IMIDAZO[4,5-C]QUINOLIN-4-AMINES	CROOKS STEPHEN L.
07838475	Not Issued	168	02/19/1992	1-SUBSTITUTED, 2-SUBSTITUTED 1H-IMIDAZO[4,5-C]QUINOLIN-4-AMINES	CROOKS STEPHEN L.
07687326	Not Issued	168	04/18/1991	1-SUBSTITUTED, 2-SUBSTITUTED 1H-IMIDAZO(4,5-C)QUINOLIN-4-AMINES	CROOKS STEPHEN L.
07662926	Not Issued	168	03/01/1991	1-SUBSTITUTED, 2-SUBSTITUTED IH-IMIDAZO(4,5-C)QUINILIN-4-AMINES	CROOKS STEPHEN L.
06144970	4327256	150	04/29/1980	TELEPHONE SYSTEM	CROOKS STEPHEN J.

Inventor Search Completed: No Records to Display.

Search Another: Inventor

Last Name Crooks **First Name** Stephen

Search

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